

[0006] The job manager along with the catalog manager then identifies a volume that had been partially backed up during the interruption. In one embodiment, the partially backed up volume may be identified using the persistent records of the temporary catalog files and the amount data (bytes) that have been written to the storage devices. Once the partially backed up volume has been identified, the catalog server generates a disk-based catalog containing the partially backed up volume.

[0007] Prior to connecting to the data server to begin the process of writing data stored in the client computer to the storage devices, the job manager initializes the media server and the catalog server. Once the media server and the catalog server are initialized, the data server makes a determination as to whether each container object (directory) in the client computer is listed in the disk-based catalog. If the container object is not listed in the disk-based catalog, then the data associated with the container object are written to the storage devices. If the container object is listed, then the data server further determines whether the container object was partially backed up or completely backed up. If the data server determines that the container object is partially backed up, then the data associated with the container object are written to the storage devices. If the data server determines that the container object is completely backed up, then the data associated with the container object are skipped from being written to the storage devices.

#### **BRIEF DESCRIPTION OF THE DRAWINGS**

[0008] The following detailed description makes reference to the accompanying drawings, which are now briefly described.

[0009] Figure 1 illustrates a block diagram of a computer network that operates in accordance with one embodiment of the present invention.

[0010] Figure 2 illustrates a relational view between the backup system and one of the client computers in accordance with one embodiment of the invention.

*Figures 3A, 3B, 3C, and 3D illustrate*

[0011] *Figure 3 illustrates a flowchart of a method for processing a backup job that was interrupted during a back up process in accordance with one embodiment of the invention.*

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